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(54) Title: PRODUCTION PROCESS OF FILM AND COLUMN FOR CATION CHROMATOGRAPHY

(57) Abstract: One object of the present invention is to produce a weakly acidic cation exchanger under mild conditions. Another object of the present invention is to produce a more firm weakly acidic cation exchange film. Still another object of the present invention is to provide a weakly acidic cation exchanger capable of realizing high-level separation of monovalent cation and simultaneously analyzing monovalent cation and divalent cation and also provide a chromatography column using the ion exchanger. In the production method of a weakly acidic cation exchanger of the invention, a solvent incapable of dissolving a polymer having a double bond within the molecule is used and the weakly acidic cation exchanger is produced by polymerization at temperature of 100°C or less. When an  $\alpha,\beta$ -unsaturated dibasic acid derivative is dissolved in the solvent, the  $\alpha,\beta$ -unsaturated dibasic acid derivative reacts with the polymer and a more firm film can be formed. Furthermore, when the weakly acidic cation exchanger obtained by this process is packed in a column, monovalent cation can be separated in a high level.

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